INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year:		Park: Glacier Bay NP & PRES	
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Permit#:			
GLBA1999Hooge1			
Park-assigned Study Id. #:			
unknown			
Project Title:	sian Day, Alaska		
Fjord estuarine oceanographic patterns at Glac	Hei Bay, Alaska		
Permit Start Date: Jan 01, 1999		Permit Expiration Date Jan 01, 2000	
		Jan 01, 2000	
Study Start Date: Jan 01, 1992		Study End Date Jan 01, 2005	
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Study Status: Completed			
Activity Type:			
Research			
Subject/Discipline:			
Coastal / Marine Systems			
Objectives:			
Determine the patterns of oceanographic processes at Glacier Bay, Alaska. Develop a long-term monitoring procedure that successfully encompases the			
most important variation in oceanographic processes. Oceanographic data have been collected since 1992 as an ancillary product of fisheries research. This is the first year that both USGS and NPS resources have been focused on analyzing these data, developing an integrated data management system,			
developing protocols for data collection and analysis, and expanding the program to encompass our new understanding of oceanographic patterns.			
Findings and Status:			
The program is in the beginning stages of data analysis. Twenty-one oceanographic stations were sampled approximately every other month since 1992.			
Sampling was expanded in FY1999 to include five more stations and will be further expanded in FY2000. The integrated oceanographic GIS completed in FY2000, in time for a Glacier Bay oceanography workshop. As part of this process, we have developed new oceanographic visualization			
and analysis software. Preliminary anlysis has revealed that the paradigm of only winter deep water renewal is incorrect. In addition, upwelling and			
sufficient photosynthetically active radiation.	mixing patterns are much more extensive than previously thought. Glacier Bay appears to be a light-limited system with high productivity in areas with sufficient photosynthetically active radiation.		
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses?			
No			
Funding provided this reporting year by NP	S:	Funding provided this reporting year by other sources:	
40000		40000	
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college			
Full name of college or university:		Annual funding provided by NPS to university or college this reporting	

	year:
n/a	0